



## RC4 LumenDimMIO-100 Quick Start Guide

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The LumenDimIO-100 uses a genuine LumenRadio TimoTwo RF module. This device supports Bluetooth connectivity with the LumenRadio CRMX Toolbox app on a smartphone, which is the easiest and most intuitive way to configure the LumenDimIO-100.

For Apple iOS, search for the CRMX Toolbox in the App Store.

For Android, search for the CRMX Toolbox in Google Play.

Download and install the app. It is provided at no charge, does not use advertising, and does not collect any personal information. It is a safe and secure application.

Use CRMX Toolbox to:

- set the LumenDimIO-100 as a transmitter (TX) or receiver (RX)
- set a Linking Key if desired
- set the RF output power (to a maximum of 100mW)

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The Link button is recessed under a slotted opening below the DC power input receptacle. Use a small screwdriver or bent paperclip to press it.

TO LINK:

1. Power on the CRMX devices you would like to connect.
2. Configure the LumenDimIO-100 for RX (receiver) or TX (transmitter) mode using either the CRMX Toolbox app, or see instructions below.
3. Ensure that the Status LED indicators on all receivers are off to indicate that the receivers are ready to be linked. (If necessary, follow the unlink procedure below.)
4. On the transmitter, press and release the Link button.
5. The transmitter will search for any unlinked receivers. Its Status indicator will flash for 10 seconds, then normal operation will resume.
6. The Status indicator will display short blinks in the selected universe color on successfully linked receivers.

TO UNLINK:

Unlink one receiver device:

- On the receiver, press and hold its link button for more than 3 seconds to unlink it from a transmitter. The Status indicator will turn off.

Unlink all from transmitter:

- On the transmitter, press and hold its link button for more than 3 seconds to unlink all of its receivers.

The most commonly used LumenDimIO-100 functions can be selected using the Link button, so you can access them without a smartphone.

Patterns of short and long button pushes are used. A short push is less than half a second. A long push is more than 3 seconds.

#### SWITCH BETWEEN TX AND RX MODES:

1. Be sure the device has been turned on and running for at least 5 seconds before using Link button functions.
2. Short press the link button five (5) times in succession, then immediately long press (press and hold) the button for three seconds.
3. You can now change the Flex mode as desired. The Status indicator will indicate the selected mode by blinking fast or slow. Rapid blinking indicates RX mode. Slow blinking indicates TX mode.

To step between RX and TX modes: Short press the link button to move to the next mode. Be sure to do this within 15 seconds – after 15 seconds, the process times out and the LumenDimIO-100 returns to normal operation.

**To save changes: Long press the link button for three seconds.** The unit will revert to normal operation using the newly selected mode.

To exit without saving changes: The unit will revert to normal operation if you do not press the link button within fifteen seconds. The unit will continue to act as previously configured until you actively change the mode (even if you turn the unit off).

#### SELECT THE TRANSMITTER PROTOCOL:

1. Be sure the device has been turned on and running for at least 5 seconds before using Link button functions.
2. Short press the link button three (3) times in succession, then immediately long press (press and hold) the button for three seconds.
3. The Status indicator now indicates the selected protocol:

Single blinks: W-DMX G3 protocol

Double blinks: W-DMX G4S protocol

Triple blinks: CRMX protocol (this is the default, and is recommended for best performance).

To step through the modes: Short press the link button.

**To save changes: Long press the link button for three seconds.** The unit will revert to normal operation using the newly selected mode.

#### RESET THE PIN CODE:

1. Be sure the device has been turned on and running for at least 5 seconds before using Link button functions.
2. Short press the link button seven (7) times in succession, then immediately long press (press and hold) the button for three seconds.
3. You have now reset the Pin code in the device.

#### SWITCHING BLUETOOTH ON AND OFF:

1. Be sure the device has been turned on and running for at least 5 seconds before using Link button functions.
2. Short press the link button one (1) time, then immediately long press (press and hold) the button for three seconds.
3. Bluetooth functionality has now been toggled. If it was on, it is now off. If it was off, it is now on.

**For full DMX integrity we recommend switching off Bluetooth during normal operation.**